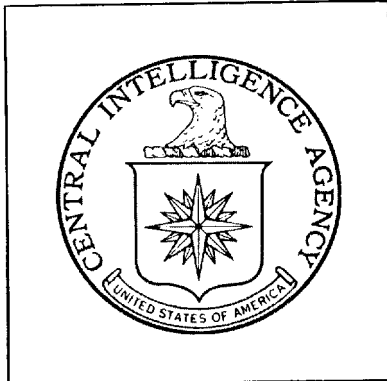


**Top Secret**



**DIRECTORATE OF  
INTELLIGENCE**

**Industrial Facilities  
(Non-Military)**

*Basic Imagery Interpretation Report*

**Major Electric Power Plants**

**Hopeh Province, China**

*Handle via Talent - Keyhole  
Channels Only*

**Top Secret**

**Declass Review by NIMA / DoD**

RCS 13/0021/70  
TCS 16524/70  
DATE FEBRUARY 1970  
COPY 106  
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TCS - 16524/70  
RCS - 13/0021/70

CENTRAL INTELLIGENCE AGENCY  
Directorate of Intelligence  
Imagery Analysis Service

ABSTRACT

25X1D This report, based on [REDACTED] photography, covers the 16 major electric power plants in Hopeh Province, northern China. It updates previous Basic Imagery Interpretation Reports and Briefs on the four plants at Peking and one each at Chin-huang-tao, Chu-yang, Han-tan, Hsia-hua-yuan, Lin-hsi, Mi-yun, Pao-ting, Ping-shan, Shih-chia-chuang, Tang-shan, and Tientsin. Also included is the initial basic report on the Huai-lai Hydro Power Plant. The cutoff date for information in this report is [REDACTED]

25X1D The Huai-lai Hydro Power Plant was complete when it was first seen on available photography in [REDACTED]. Since that time no changes have been observed at the plant. The plant contains a power house probably with four turbogenerators, a switching yard with four transformers, a semiburied surge tank, and underground conduits.

25X1D At the Pei-ching (Peking) Thermal Power Plant Kao-ching, the boilerhouse previously reported under construction has been completed and an additional double-unit boiler has been installed. Since the previous report, no construction or dismantling has been observed at the other 15 plants. On the latest coverage, 12 plants were observed in operation. The poor quality of the photography precluded determining the operational status of the other four plants.

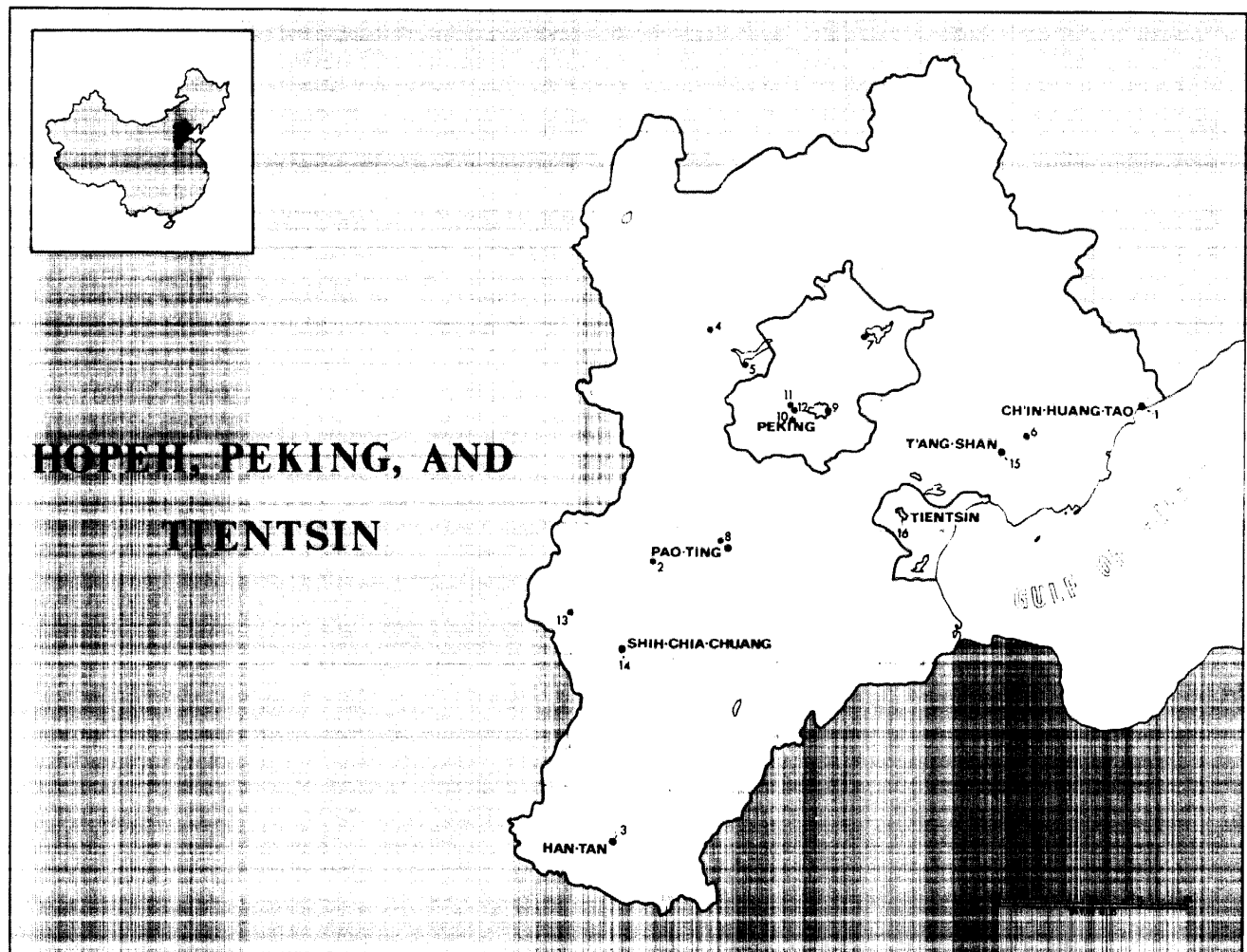


FIGURE 1. LOCATION MAP.

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TCS 16524/70

## INTRODUCTION

This report presents information on the current status of each of the 16 major electric power plants in Hopeh Province and describes any changes since the previous reports.

The following list of the major electric power plants in Hopeh Province is keyed to Figure 1.

1. Chin-huang-tao Thermal Power Plant.
2. Chu-yang Hydro Power Plant.
3. Han-tan Thermal Power Plant.
4. Hsia-hua-yuan Thermal Power Plant.
5. Huai-lai Hydro Power Plant and Dam Kuan-ting.
6. Lin-hsi Thermal Power Plant.
7. Mi-yun Hydro Power Plant and Dam No. 1.
8. Pao-ting Thermal Power Plant.
9. Pei-ching (Peking) Heat and Thermal Power Plant No. 1.
10. Pei-ching Thermal Power Plant Chang-hsin-tien.
11. Pei-ching Thermal Power Plant Kao-ching.
12. Pei-ching Thermal Power Plant Shih-ching-shan.
13. Ping-shan Hydro Power Plant Kang-nan.
14. Shih-chia-chuang Heat and Thermal Power Plant.
15. Tang-shan Heat and Thermal Power Plant.
16. Tien-ching (Tientsin) Thermal Power Plant No. 1.

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Requirement

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Support Number 420224

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	INSTALLATION OR ACTIVITY NAME	COUNTRY
	Chin-huang-tao Thermal Power Plant	CH
25X1A	UTM COORDINATES	GEOGRAPHIC COORDINATES
	50SQK230219	39-55-03N 119-36-40E
	MAP REFERENCE	
25X1C	USATC, Series 200, Sheet M0381-3HL, 2nd ed, Mar 66, Scale 1:200,000	
25X1C	(SECRET/No Foreign Dissem)	
	LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D		NA

#### BASIC DESCRIPTION

25X1D No changes have been observed at the Chin-huang-tao Thermal Power Plant since [REDACTED] the date of the latest photography used in the previous report.

The poor quality of the photography precluded determining if the plant was in operation.

#### REFERENCES

##### Imagery

25X1D

##### Document

25X1A

CIA. [REDACTED] Chin-huang-tao Thermal Power Plant, March 1969,  
TCS 18591/69 (TOP SECRET RUFF)

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chu-yang Hydro Power Plant		CH
25X1A UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SLT055916	38-44-40N 114-46-28E	
MAP REFERENCE		
25X1C	USATC, Series 200, Sheet M0382-10HL, 3rd ed, Jul 67, Scale 1:200,000	
25X1C	(SECRET/No Foreign Dissem)	
LATEST IMAGERY USED		NEGATION DATE (If required)
25X1D		NA

#### BASIC DESCRIPTION

25X1D No changes have been observed at the Chu-yang Hydro Power Plant since the date of the latest photography in the previous report.

25X1D On the latest coverage, no turbulence was observed in the tailrace to indicate the plant was operating. However, the scale of the photography may have precluded its observation. The plant was last seen operating on photography of

#### REFERENCES

Imagery

25X1D

Document

CIA. RCS 13/0110/69, Selected Chinese Power Plants, May 1969, TCS 18724/69  
(TOP SECRET RUFF)

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	INSTALLATION OR ACTIVITY NAME		COUNTRY
	Han-tan Thermal Power Plant		CH
25X1A	UTM COORDINATES 50SKR768574	GEOGRAPHIC COORDINATES 36-38-17N 114-29-48E	
	MAP REFERENCE		
25X1C	[REDACTED] USATC, Series 200, Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000		
25X1C	(SECRET/No Foreign Dissem [REDACTED])		
	LATEST IMAGERY USED		NEGATION DATE (If required)
25X1D	[REDACTED]		NA

#### BASIC DESCRIPTION

25X1D No changes have been observed at the Han-tan Thermal Power Plant since [REDACTED] the date of the latest photography used in the previous re-  
25X1D port. [REDACTED]  
25X1D [REDACTED]

25X1D The plant was operating in [REDACTED] Smoke was observed emanating from the two stacks, and the two spray ponds were operating.

#### REFERENCES

##### Imagery

25X1D [REDACTED]

##### Document

25X1A CIA. [REDACTED] Han-tan Thermal Power Plant, August 1968, TCS 9812/68  
(TOP SECRET RUFF)



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TCS - 16524/70

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Hsia-hua-yuan Thermal Power Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50TLK518829	40-29-00N 115-15-55E	
MAP REFERENCE		
	USATC, Series 200, Sheet M0289-2IHL, 5th ed, Aug 68, Scale 1:200,000 (SECRET/No Foreign Dissem)	
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

BASIC DESCRIPTION

No changes have been observed at the Hsia-hua-yuan Thermal Power Plant since [REDACTED] the date of the latest photography used in the previous report.

The plant was operating in [REDACTED] Smoke was observed emanating from the stack and vapor from the cooling towers.

REFERENCES

Imagery

Document

CIA. [REDACTED] Hsia-hua-yuan Thermal Power Plant, September 1968,  
TCS 10287/68 (TOP SECRET RUFF)



FIGURE 2. HUIAI-LAI HYDRO POWER PLANT KUAN-TING, CHINA.

Key to Annotations

<u>Item No.</u>	<u>Description</u>	<u>Remarks</u>
1	Tailrace	Probably 4 Turbogenerators 4 Transformers
2	Powerhouse	
3	Switching Yard	
4	Semiburied Surge Tank	
5	Spillway	
6	Water Intake	
7	Earthen Dam	
8	Bypass Intake	
9	Bypass Outlet	

INSTALLATION OR ACTIVITY NAME		COUNTRY
Huai-lai Hydro Power Plant and Dam Kuan-ting		CH
25X1A UTM COORDINATES	GEOGRAPHIC COORDINATES	
50TLK807539	40-13-20N 115-36-10E	
MAP REFERENCE		
25X1C	USATC, Series 200, Sheet M0289-21HL, 5th ed. Aug 68, Scale 1:200,000	
25X1C	(SECRET/No Foreign Dissem)	
LATEST IMAGERY USED		NEGATION DATE (if required)
25X1D		NA

#### BASIC DESCRIPTION

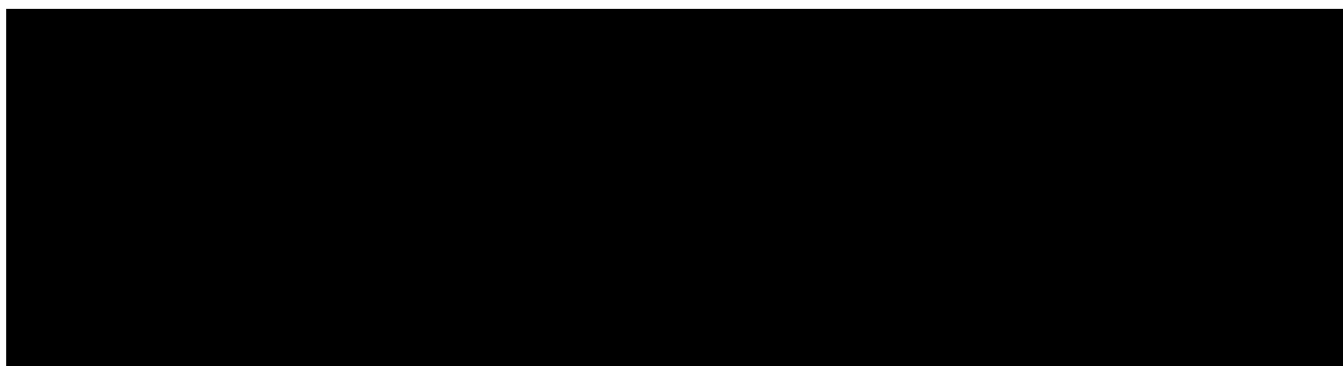
The Huai-lai Hydro Power Plant and Dam is about 11 nautical miles (nm) south-southeast of Huai-lai on the Yung-ting River. The powerhouse is about 0.6 nm south of the dam.

25X1D The plant facilities include an earthen dam, a powerhouse, a switching  
25X1D yard, a semiburied surge tank, and underground conduits. The water enters the  
underground conduits near the east end of the dam, and then flows past the  
semiburied surge tank to the powerhouse. Four discharges at the base of the  
powerhouse indicate that it probably contains four turbogenerators. Four trans-  
formers have been observed within the switching yard. The plant was complete  
when first observed on available photography in [REDACTED] Since that  
time, no changes have been seen at the plant on photography through [REDACTED]

25X1D The plant was observed in operation only in [REDACTED] when turbulence  
was seen in the tailrace. Since that time, no turbulence has been visible in  
the tailrace to indicate that the plant was operating. However, the quality of  
the photography may have precluded its observation.

REFERENCES

Imagery



Map



US Air Target Chart, Series 200, Sheet M0289-21HL, 5th edition,  
August 1968, Scale 1:200,000 (SECRET/No Foreign Dissem



Document

CIA. PIR 65150, Chinese Power Plants, Hopeh Province, June 1966, TCS 3624/66  
(TOP SECRET RUFF)

INSTALLATION OR ACTIVITY NAME		COUNTRY
Lin-hsi Thermal Power Plant		CH
25X1A UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SPJ244978	39-43-10N 118-26-30E	
MAP REFERENCE		
25X1C	USATC, Series 200, Sheet 0381-2HL, 2nd ed, Jan 64, Scale 1:200,000 (SECRET)	
LATEST IMAGERY USED		NEGATION DATE (If required)
25X1D		NA

#### BASIC DESCRIPTION

25X1D No changes have been observed at the Lin-hsi Thermal Power Plant since the date of the latest photography used in the previous report.

25X1D The plant was operating in . Smoke was observed emanating from the stacks and vapor from the three cooling towers.

#### REFERENCES

##### Imagery

25X1D

##### Document

CIA. RCS 13/0110/69, Selected Chinese Power Plants, May 1969, TCS 18724/69 (TOP SECRET RUFF)

TOP SECRET RUFF

TOP SECRET RUFF

INSTALLATION OR ACTIVITY NAME		COUNTRY
Mi-yun Hydro Power Plant and Dam No. 1		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50TMK857808	40-28-55N 116-49-50E	
MAP REFERENCE		
USATC, Series 200, Sheet M0289-22HL, 2nd ed, Jul 63, Scale 1:200,000 (SECRET/No Foreign Dissem)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

#### BASIC DESCRIPTION

No changes have been observed at the Mi-yun Hydro Power Plant and Dam since the date of the latest photography used in the previous report.

On the latest coverage, no turbulence was observed in the tailrace to indicate the plant was operating. However, the scale of the photography may have precluded its observation.

#### REFERENCES

##### Imagery

##### Document

CIA. Mi-yun Hydro Power Plant and Dam No. 1, November 1968, TCS 1072e/68 (TOP SECRET RUFF)

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TCS 16524/70

INSTALLATION OR ACTIVITY NAME		COUNTRY
Pao-ting Thermal Power Plant		CH
25X1A UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SLU645035	38-52-37N 115-25-52E	
MAP REFERENCE		
USATC, Series 200, Sheet M0382-10HL, 3rd ed. Jul 67. Scale 1:200,000		
(SECRET/No Foreign Dissem Except		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

#### BASIC DESCRIPTION

25X1D No changes have been observed at the Pao-ting Thermal Power Plant since the date of the latest photography used in the previous report.

25X1D The plant was operating in . Smoke was emanating from the stack and the two spray ponds were in operation.

#### REFERENCES

##### Imagery

25X1D

##### Document

25X1A

CIA. Pao-ting Thermal Power Plant, January 1969, TCS 12329/68  
(TOP SECRET RUFF)

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25X1A

INSTALLATION OR ACTIVITY NAME		COUNTRY
Pei-ching Heat and Thermal Power Plant No. 1		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SMV550181	39-54-29N 116-28-23E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0381-IHL, 4th ed, Nov 65, Scale 1:200,000 (SECRET/No Foreign Dissem)		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

25X1C

25X1D

#### BASIC DESCRIPTION

25X1D

No changes have been observed at the Pei-ching Heat and Thermal Power Plant No. 1 since [REDACTED] the date of the latest photography used in the previous report.

25X1D

25X1D

The east end of the boilerhouse was still under construction in [REDACTED]. The smoke emanating from the three stacks prevented a complete analysis of the facilities, but it indicated that the plant was in operation.

#### REFERENCES

##### Imagery

25X1D

##### Document

25X1A

CIA. [REDACTED] Pei-ching Heat and Thermal Power Plant No. 1, January 1969, TCS 11863/68 (TOP SECRET RUFF)



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TCS 116524/70

INSTALLATION OR ACTIVITY NAME		COUNTRY
Pei-ching Thermal Power Plant Chang-hsin-tien		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SMV267074	39-48-45N 116-08-26E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0381-IHL, 4th ed, Nov 65, Scale 1:200,000 (SECRET/No Foreign Dissem)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

#### BASIC DESCRIPTION

No changes have been observed at the Pei-ching Thermal Power Plant Chang-hsin-tien since the date of the latest photography used in the previous report.

The plant was operating in Smoke was emanating from the stack and the spray ponds were in operation.

#### REFERENCES

##### Imagery

##### Document

CIA. Pei-ching Thermal Power Plant (Chang-hsin-tien),  
December 1968, TCS 11862/68 (TOP SECRET RUFF)

TOP SECRET RUFF

TOP SECRET RUFF

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166-106524/70

INSTALLATION OR ACTIVITY NAME		COUNTRY
Pei-ching Thermal Power Plant Kao-ching		CH
25X1A	UTM COORDINATES	GEOGRAPHIC COORDINATES
	50SMV256213	39-56-16N 116-07-44E
MAP REFERENCE		
25X1C	ACIC. USATC, Series 200, Sheet M0381-IHL, 4th ed, Nov 65, Scale 1:200,000 (SECRET/No Foreign Dissem)	
LATEST IMAGERY USED		NEGATION DATE (If required)
25X1D		NA

#### BASIC DESCRIPTION

25X1D Since [REDACTED] the northern section of the new boilerhouse has been  
25X1D completed and one additional double-unit boiler has been installed at the Pei-  
ching Thermal Power Plant Kao-ching. In [REDACTED] the boilerhouse contain-  
ed six double-unit boilers.

25X1D The plant was operating in [REDACTED] Smoke was emanating from the  
two stacks.

#### REFERENCES

##### Imagery

25X1D [REDACTED]

##### Documents

25X1A CIA. [REDACTED] Pei-ching Thermal Power Plant (Kao-ching), February 1969,  
TCS 12163/68 (TOP SECRET RUFF)

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Pei-ching Thermal Power Plant Shih-ching-shan		CH
25X1A	UTM COORDINATES	GEOGRAPHIC COORDINATES
	50SMV269193	39-55-07N 116-08-38E
MAP REFERENCE		
25X1C	ACIC. USATC, Series 200, Sheet M0381-IHL, 4th ed, Nov 65, Scale 1:200,000 (SECRET/No Foreign Dissem)	
LATEST IMAGERY USED		NEGATION DATE (If required)
25X1D		NA

#### BASIC DESCRIPTION

25X1D No changes have been observed at the Pei-ching Thermal Power Plant Shih-ching-shan since [REDACTED] the date of the latest photography used in the previous report.

25X1D The plant was operating in [REDACTED] as indicated by smoke emanating from an undetermined number of stacks.

#### REFERENCES

##### Imagery

25X1D [REDACTED]

##### Document

25X1A CIA. [REDACTED] Pei-ching Thermal Power Plant (Shih-ching-shan),  
January 1969, TCS 12162/68 (TOP SECRET RUFF)

TOP SECRET RUFF

TOP SECRET RUFF

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Ping-shan Hydro Power Plant Kang-nan		CH
25X1A UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SKT645359*	38-14-57N 114-18-12E*	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0382-14HL, 3rd ed, May 67, Scale 1:200,000 (SECRET/No Foreign Dissem)		
LATEST IMAGERY USED		NEGATION DATE (if required)
25X1D		NA

\*Action has been initiated to correct the geographic and UTM coordinates in the Basic Encyclopedia to 38-18-55N 113-59-50E and 49SGN617432, respectively.

#### BASIC DESCRIPTION

25X1D No changes have been observed at the Ping-shan Hydro Power Plant since  
the date of the latest photography used in the previous report.

25X1D The plant was operating in Turbulence was observed in the  
tailrace below the powerhouse.

#### REFERENCES

##### Imagery

25X1D

##### Document

25X1A

CIA. Ping-shan Hydro Power Plant (Kang-nan), November 1968,  
TCS 10741/68 (TOP SECRET RUFF)

TOP SECRET RUFF

INSTALLATION OR ACTIVITY NAME		COUNTRY
Shih-chia-chuang Heat and Thermal Power Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SKT835152	38-03-34N 114-31-19E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0382-14HL, 3rd ed, May 67, Scale 1:200,000 (SECRET/No Foreign Dissem)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

No changes have been observed at the Shih-chia-chuang Heat and Thermal Power Plant since the date of the latest photography used in the previous report.

The plant was operating in . Smoke was emanating from the three stacks, and at least two of the four spray ponds were in operation.

REFERENCES

Imagery

Document

CIA. Shih-chia-chuang Heat and Thermal Power Plant, March 1969, TCS 18607/69 (TOP SECRET RUFF)

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	INSTALLATION OR ACTIVITY NAME		COUNTRY
	Tang-shan Heat and Thermal Power Plant		CH
25X1A	UTM COORDINATES	GEOGRAPHIC COORDINATES	
	50SPJ032897	39-38-50N 118-11-45E	
	MAP REFERENCE		
25X1C	[REDACTED] USATC, Series 200, Sheet 0381-2HL, 2nd ed, Jan 64, Scale 1:200,000 (SECRET)		
	LATEST IMAGERY USED		NEGATION DATE (If required)
25X1D	[REDACTED]		NA

#### BASIC DESCRIPTION

25X1D No changes have been observed at the Tang-shan Heat and Thermal Power Plant since [REDACTED] the date of the latest photography used in the previous report.

25X1D The plant was operating in [REDACTED] Heavy smoke was emanating from both stacks and vapor from the cooling towers.

#### REFERENCES

##### Imagery

25X1D [REDACTED]

##### Document

25X1A CIA. [REDACTED] Tang-shan Heat and Thermal Power Plant, March 1969, TCS 18565/69 (TOP SECRET RUFF)

INSTALLATION OR ACTIVITY NAME		COUNTRY
Tien-ching Thermal Power Plant No. 1		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SNU189293	39-06-43N 117-13-09E	
MAP REFERENCE		
USATC, Series 200, Sheet 0381-6HL, 3rd ed, May 64, Scale 1:200,000 (SECRET/Controlled Dissem)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

No changes have been observed at the Tien-ching Thermal Power Plant No. 1 since the date of the latest photography used in the previous report.

The plant was operating in . Smoke was emanating from four of the five southern and two of the three northern stacks.

REFERENCES

Imagery

Document

CIA. Tien-ching Thermal Power Plant No. 1, January 1969, TCS 12318/68 (TOP SECRET RUFF)

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